

Atty Dkt. No.: CLON-069  
USSN: 10/055,794

**In the Claims:**

Please enter the following amendments.

1. **(Canceled)**
2. **(Currently Amended)** A sequence-specific recombinase-based system for use in preparing an intron containing vector, said system comprising:  
a donor vector comprising at least one splice site and an acceptor vector comprising at least one splice site, wherein said donor and acceptor vectors each comprise at least one sequence-specific recombinase target recognition site and wherein one of said donor and acceptor vectors comprises two sequence-specific recombinase target recognition sites and the other of said donor and acceptor vectors comprises a single sequence-specific recombinase target recognition site, wherein all of said sequence-specific recombinase sequence-specific sites are able to recombine with each other.
3. **(Currently Amended)** The system according to Claim 2, wherein said donor vector comprises two sequence-specific recombinase target recognition sites and said acceptor vector comprises a single sequence-specific recombinase target recognition site.
4. **(Currently Amended)** The system according to Claim 3, wherein said two sequence-specific recombinase target recognition sites on said donor vector are oriented in the same direction.
5. **(Currently Amended)** The system according to Claim 2, wherein said donor vector comprises a single sequence-specific recombinase target recognition site and said acceptor comprises two sequence-specific recombinase target recognition sites.

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6. **(Currently Amended)** The system according to Claim 5, wherein said two sequence-specific recombinase target recognition sites of said acceptor vector are oriented in the same direction.

7. **(Previously Presented)** The system according to Claim 2, wherein said system further comprises a sequence specific recombinase.

8. **(Currently Amended)** The system according to Claim 2, wherein said sequence-specific recombinase target recognition sites are selected from the group consisting of: lox sites, att sites, dif sites and frt sites.

9. **(Previously Presented)** The system according to Claim 2, wherein said donor and acceptor vectors are plasmids, cosmids, bac<sub>s</sub>, yacs or viruses.

10. **(Previously Presented)** The system according to Claim 2, wherein said system further comprises a host cell.

11. **(Previously Presented)** The system according to Claim 2, wherein each of said donor and acceptor vectors comprise a splice donor and a splice acceptor sequence.

12.-20. **(Canceled)**

21. **(Currently Amended)** A kit for use in producing an expression vector, said kit comprising:

at least one of:

- (a) a donor vector comprising a splice site; and
- (b) an acceptor vector comprising a splice site;

wherein each of said donor and acceptor vectors further comprises at least one sequence-specific recombinase target recognition site and wherein one of said donor

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and acceptor vectors comprises two sequence-specific recombinase target recognition sites and the other of said donor and acceptor vectors comprises a single sequence-specific recombinase target recognition site, wherein all of said sequence-specific recombinase target recognition sites are able to recombine with each other.

22. (Original) The kit according to Claim 21, wherein said kit comprises both said donor and acceptor vectors.

23. (Currently Amended) The kit according to Claim 21, wherein said kit further comprises a sequence specific recombinase that recognizes said sequence-specific recombinase target recognition sites.

24. (Currently Amended) A method of producing an intron containing vector, said method comprising:

combining a splice sequence comprising donor vector and a splice sequence comprising acceptor vector, wherein one of said donor and acceptor vectors comprises two sequence-specific recombinase target recognition sites and the other of said donor and acceptor vectors comprises a single sequence-specific recombinase target recognition site, wherein all of said sequence-specific recombinase target recognition sites are able to recombine with each other, with a recombinase under conditions sufficient for site-specific recombination to occur to produce said intron containing vector.

25. (Currently Amended) The method according to Claim 24, wherein said donor vector comprises two sequence-specific recombinase target recognition sites and said acceptor vector comprises a single sequence-specific recombinase target recognition site.

26. (Currently Amended) The method according to Claim 24, wherein said donor vector comprises a single sequence-specific recombinase target recognition site and

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said acceptor vector comprises two sequence-specific recombinase target recognition sites.

27. (Original) The method according to Claim 24, wherein said sequence specific recombinase is selected from the group consisting of: recombinases, transposases and integrases.

28. (Original) The method according to Claim 24, wherein said sequence specific recombinase is Cre recombinase.

29. (Currently Amended) The method according to Claim 24, wherein said sequence-specific recombinase target ~~recognition~~ sites are selected from the group consisting of: lox sites, att sites, dif sites and frt sites.

30. (Original) The method according to Claim 29, wherein said recombinase recognition sites are lox sites.

31.-37. (Canceled)